## Approved For Release 2003/12/04 : CIA-RDP78B051Z1A000100010001-7

NPIC/TSSG/DED-1144-68 22 March 1968

	MEMORANDUM FOR: Chief, Technical Services & Support Group	
25X^	1 SUBJECT : High Precision Stereo Comparator	
	l. The Executive Director of NPIC has requested a recommendation from us concerning the probability of technical success of the High Precision 25% Stereo Comparator. The following is an analysis of the potential problem areas and a recommendation from the Development & Engineering Division.	X1
25X^	2. There are four major areas of consideration: the mechanical implementation of the Comparator, the interferometer measuring system, the correlation system, and the optics package. With regard to the first three items, and their primary subcontractor, have these areas well in hand.  There are some reservations, however, about the optics.	X1
25X	conservative scientist. The latest of these discussions book processions	
25X	and relates to (1) previous discussions between 25.  [project officer) and to (2) trip to 25.  where he discussed the optical system with optical con-25.	X1
25X 25X	cluded	X1
25X 25X	the control of the co	X1
25X	b. He was neither able to affirm nor negate capabil- ity, having been able to quote historical examples of both poor and excellent performance. It would realistically require a visit on his	i
	Declass Review by  SECRET  GROUP 1  Excluded from automatic development and development de	

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25X1	SUBJECT: High Precision Stereo Comparator	
25X1	c. feels that the optical system can be built.  He also feels that possibly two companies in the United States.	
25X1	might be able to do a superior job to  However, he also felt that this would be an unrealistic recommendation since we couldn't possibly afford it. The price of an optical system such as this from these firms could run anywhere from 3 to 5 times what is proposing with considerable delay in delivery.	25X1
25X1	d. The only way that could really confirm or negate the design would be to essentially rerun the entire system. The magnitude of this task is essentially to redesign it himself—he has neither the time nor the inclination. It is too complex for any other approach to provide a very positive answer on his part.	25X1
25X1	e. further felt that taking his best current know- ledge of the system, and what we want to use it for, that it is fairly probable that the ultimate system as designed will fall slightly below the stated specifications but would be close enough to those specifications to still produce an acceptable instrument.  then suggested to me that with these caveats he felt it would be	25X1
	realistic for us to go ahead with as a contractor because if certain areas of the system did not work out, e.g., the zoom lens anamorph etc., we would still be able to redesign these elements at a cost still considerably less than the alternative of going to someone else.	25X1
	4. It appears reasonable to us, all things considered:	
	a. That there isn't a 100% probability of success of the opti- cal system; in an optical system this complex there can't be.	
	b. That the probability of an acceptable system somewhat less than meeting the specifications is reasonably high;	
	c. That the cost of going to would be pro- hibitive both in terms of the cost of the optical system itself and in delays to the prime contract;	25X1
25X1	d. That since recommends it is contractually poor practice to force them to some other subcontractor since this essentially gives them an "out" if performance is substandard.	25X1 25X1
25X1	e. Under the anticipated contractual relationship, is still responsible for performance. We should continue to hold them responsible.	25X1
	Account of the contract of the	

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25X1	SUBJECT: High Precision Stereo Comparator	
25X1	5. It is our recommendation that we permit to subcontract the optics package to since we have no reasonable alternative; further, we will attempt to write into the contract every reasonable safeguard we can;	25X
25X1	i.e., close monitoring, tight specifications, and contractual guarantees.  Finally, we recommend that	25X <sup>-</sup>
	Chief, Development & Engineering Division, TSSG	25X <sup>2</sup>
25X1	Distribution: Orig & 1 - Addressee 1 - NPIC/TSSG/DED 2 - NPIC/TSSG/DED files	
25X1	NPIC/TSSG/DED (22 Mar 68)	